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Attention: Mr. Edward W. Crump, Code 430

Subject: Monthly Progress Report for Period Ending September 1973

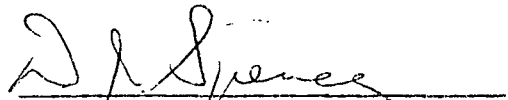
Contract: ERTS Image Data Compression Technique Evaluation MMC #153

Principal Investigator: Dr. Donald J. Spencer, GSFC ID PR512

During August, the final full scene processing was performed and tapes sent to the vendor for conversion to photographic imagery. Due to a breakdown of the scanner during August, the vendor was unable to supply the imagery. While the scanner is now operable, there is a remaining modulation on the laser scanning beam, producing a degraded image. The final imagery will be sent to TRW around the tenth of September and these images will be rerun when the scanner is completely repaired.

Two tasks not required by the contract were also performed in August. First, a spacecraft data tape was obtained from NASA GSFC, processed by the data compression algorithms, and the results were compared to those from a prior processing of a tape containing the same data after ground processing. Results indicate that a slightly higher compression can be achieved for spacecraft data than is possible on ground processed data. In addition, a preliminary implementation of the SSDI/Rice algorithm was produced together with an estimate of the associated hardware parameters.

Due to the delay in delivery of the photographic imagery and the additional tasks performed, TRW requested an extension in the delivery of the rough draft final report to September 26. The final report will be delivered on or before this date.


D. J. Spencer

(E73-10959) ERTS IMAGE DATA COMPRESSION
TECHNIQUE EVALUATION Monthly Progress
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